VIZIO

L30wgu

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Chapter 1 - Introduction

1.1 - Before Use

Congratulations on your VIZIO L30 WGU 30" LCD Television purchase. Thank you for your support of V, Inc. and its LCD Television product line. The L30 WGU is a precise electronic product and you should read the following instructions carefully to maximize the performance of the product. It has passed regulatory safety certifications and you can be assured of the highest quality display with the utmost reliability. After you have finished reading the instructions, put them away in a safe place for future reference.

> *Note: In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.*

1.2 - Specifications

Panel	30" Color TFT Active Matrix LCD, Anti-Static and hard coated
Resolution	1280 x 768 pixels (15:9 Aspect Ratio)
Display Compatibility	HDTV (720p) Native
Signal Compatibility	480i (SDTV), 480p (EDTV), 720p (HDTV), 1080i (HDTV)
Response Time	16 ms
Brightness	600 nits typical
Contrast	750:1
Viewing Angle	170° (horizontal), 170° (vertical) for CR>10
Inputs	1 x Service Port, 1 x DVI-D with audio in, 1 x RGB D-Sub 15-pin with audio in, 2 x Component Video (Y/Pb/Pr & Y/Cb/Cr) with Audio (Left and Right), 1 x S-Video, 2 x Composite Video with Audio (Left and Right), 1 x RF (for internal NTSC tuner), 1 x mini-jack
Output	1 x Audio (Right + Left), 1 x Composite Video
Features	SRS Surround, Two-tuner PIP, 3:2 pull down, noise reduction 3D digital comb filter HDTV ready (480i, 480p, 720p, 1080i)
Speakers	Built-in 2 x 5 W
Lamp Life	50,000 hours (typical)
Power	
Input	IEC Connector for direct power line connection
Voltage Range	90– 264 VAC at 50/60 Hz
Power Consumption	170 W
Environment Conditions	
Operating	Temperature: 5~35°C, Relative Humidity: 10~90%, Altitude: 0~10,000 ft.
Non-Operating	Temperature: -20~50°C, Relative Humidity: 10~90%, Altitude: 0~40,000 ft.
Dimensions	23.7" (H) x 29.1" (W) x 7.8" (D) w/stand, 20.6" (H) x 29.1" (W) x 4" (D) w/o stand
Net Weight	42.1 lbs w/stand, 31.1" w/o stand
Certifications	UL, C-UL, FCC Class B

1.3 - Opening the Package

- The VIZIO L30 WGU is packaged in a carton together with other standard accessories. Any optional accessories are packed separately in another carton.
- The weight of the LCD display is approximately 42.1 lbs. Due to the size and weight of the product, it is suggested that it be handled by a minimum of 2 persons.
- Since the glass can be easily scratched or broken, please handle the product gently. Never place the unit on a surface with the glass facing downwards unless it is on protective padding.
- When opening the carton, check that the product is in good condition and that all standard accessories and items are included.
- Save the original box and all packing materials for future shipping needs.

1.4 - Installation

- Please read the user manual carefully before performing the installation.
- The power consumption of the display is approximately 170 watts, significantly higher than a typical television. Please use the power cord designated for the product. When an extension cord is required, use one with the correct power rating. The cord must be grounded and the grounding feature must not be defeated.
- The product should be installed on a flat surface to avoid tipping. Space should be maintained between the back of the product and the wall for proper ventilation. If you would like mount the TV to the wall, please see Section 3.3 - Preparing the LCD for Wall Mounting, page 23, for additional information.
- Avoid installing the product in the kitchen, bathroom or other places with high humidity dust or smoke, so as not to shorten the service life of the electronic components.
- Please ensure the product is installed with the screen in landscape orientation. Any 90° clockwise or counterclockwise installation may induce poor ventilation and successive component damage.

1.5 - Important Safety Guidelines

This product is designed and manufactured to operate within defined design limits, and misuse may result in electric shock or fire. To prevent the product from being damaged, the following rules should be observed for the installation, use and maintenance of the product. Read the following safety instructions before operating the display. Keep these instructions in a safe place for future reference.

- To avoid the risk of electric shock or component damage, switch off the power before connecting other components to the L30 WGU LCD TV.
- Unplug the power cord before cleaning the L30 WGU LCD TV. A damp cloth is sufficient for cleaning the L30 WGU LCD TV. Do not use a liquid or a spray cleaner for cleaning the product. Do not use abrasive cleaners.
- Always use the accessories recommended by the manufacturer to insure compatibility.
- When moving the L30 WGU LCD TV from an area of low temperature to an area of high temperature, condensation may form on the housing. Do not turn on the L30 WGU LCD TV immediately after this to avoid causing fire, electric shock or component damage.
- Do not place the L30 WGU LCD TV on an unstable cart, stand, or table. If the L30 WGU LCD TV falls, it can injure a person and cause serious damage to the appliance. Use only a cart or stand recommended by the manufacturer or sold with the L30 WGU LCD TV.
- A distance of at least 3 feet should be maintained between the L30 WGU LCD TV and any heat source, i.e. radiator, heater, oven, amplifier etc.   Do not install the product close to smoke. Operating the product close to smoke or moisture may cause fire or electric shock.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the L30 WGU LCD TV and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the L30 WGU LCD TV in a bookcase or cabinet unless proper ventilation is provided.
- Never push any object into the slot on the L30 WGU LCD TV cabinet. Do not place any objects on the top of the product. It could short circuit parts causing a fire or electric shock. Never spill liquids on the L30 WGU LCD TV.
- The L30 WGU LCD TV should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The power cable must be replaced when using different voltage from that specified in the User Manual. For more information, contact your dealer.
- The L30 WGU LCD TV is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- Only the marked power source can be used for the product. Any power source other than the specified one may cause fire or electric shock.
- Do not touch the power cord during lightning. To avoid electric shock, avoid handling the power cord during electrical storms.
- Unplug the unit during a lightening storm or when it will not be used for long period of time. This will protect the L30 WGU LCD TV from damage due to power surges.
- Do not attempt to repair or service the product yourself. Opening or removing the back cover may expose you to high voltages, the risk of electric shock, and other hazards. If repair is required, please contact your dealer and refer all servicing to qualified service personnel.
- Keep the product away from moisture. Do not expose this appliance to rain or moisture. If water penetrates into the product, unplug the power cord and contact your dealer. Continuous use in this case may result in fire or electric shock.
- Do not use the product if any abnormality occurs. If any smoke or odor becomes apparent, unplug the power cord and contact your dealer immediately. Do not try to repair the product yourself.
- Avoid using dropped or damaged appliances. If the product is dropped and the housing is damaged, the internal components may function abnormally. Unplug the power cord immediately and contact your dealer for repair. Continued use of the product may cause fire or electric shock.
- Do not install the product in an area with heavy dust or high humidity. Operating the product in environments with heavy dust or high humidity may cause fire or electric shock.
- Hold the power connector when removing the power cable. Pulling the power cable itself may damage the wires inside the cable and cause fire or electric shock. When the product will not be used for an extended period of time, unplug the power connector.
- To avoid risk of electric shock, do not touch the connector with wet hands.
- Insert batteries in accordance with instructions while using the remote control. Incorrect polarities may cause damage and leakage of the batteries, operator injury and contamination the remote control.
- If any of the following occurs please contact the dealer:
    - o   The power connector fails or frays.
    - o   Liquid sprays or any object drops into the L30 WGU LCD TV.
    - o   The Display is exposed to rain or other moisture.
    - o   The Display is dropped or damaged in any way.
    - o   The performance of the Display changes substantially.
- Operating environment: Temperature: 5°C ~ 35°C, Humidity: 10% to 90% non-condensing, Altitude: 0~10,000 ft.

1.6 - Television Antenna Connection Protection

External Television Antenna Grounding
If an outside antenna or cable system is to be connected to the LCD TV, make sure that the antenna or cable system is electrically grounded to provide some protection against voltage surges and static charges.

Article 810 of the National Electrical Code, ANSI/NFPSA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements of the grounding electrode.

Lightning Protection
For added protection of the LCD TV during a lightning storm or when it is left unattended or unused for long periods of time, unplug the LCD TV from the wall outlet and disconnect the antenna or cable system.

Power Lines
Do not locate the antenna near overhead light or power circuits, or where it could fall into such power lines or circuits.

1.7 - Package Contents

V, Inc. VIZIO L30 WGU LCD TV

V, Inc. VIZIO Universal Remote Control

Component Y/Pb/Pr Cable (green, blue, and red connectors)

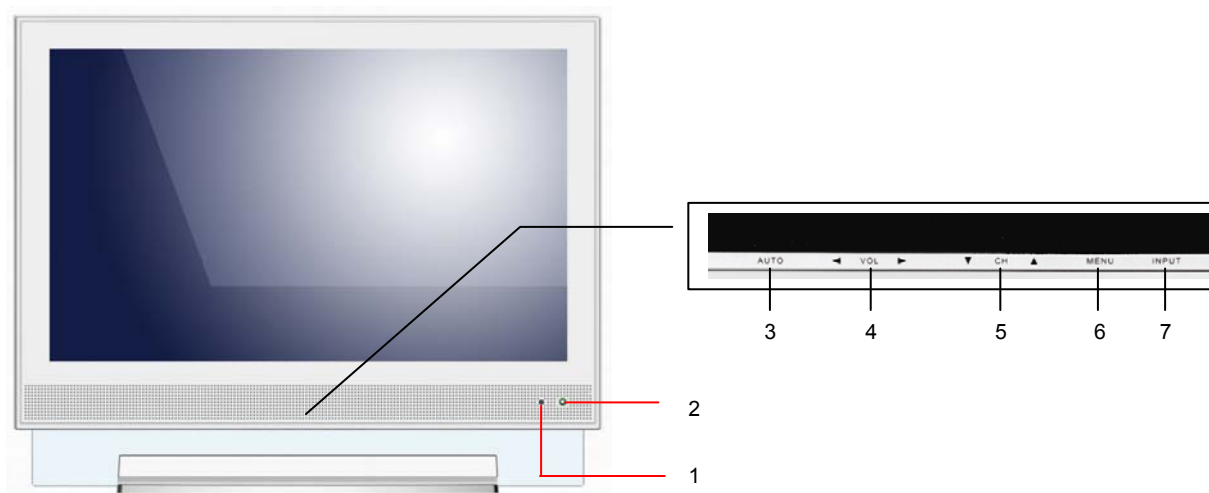Audio Cable (red and white connectors)

DVI cable

Power Cord

This User Guide

IMPORTANT: Save the original box and all the packing material for future shipping needs.

Note: Your product may also include various other accessories depending on region of purchase.

1.8 - Front Panel Controls

1. **Remote Control Sensor** – This is the window that passes all of the remote signals to the sensor. Point the remote control directly at this window for the best response to the remote signal.

2. **Power Button -** Switch the TV on by pressing the button once. Press the button again to turn the TV off.

Note: When turning the LCD TV on or off, wait three seconds before pressing this button again. If the button is not lit, then there is not any AC power detected and the power cord is not connected properly. If the button is solid orange, then your LCD TV is turned off. If the button is solid green, then your LCD TV is turned on.

3. **Auto –** This button automatically adjusts the display to the best settings in VGA and DVI modes.

4. **Volume ◄/►** - These buttons increase or decrease volume. When the OSD is active, these buttons adjust the OSD options.

5. **Channel ▲/▼** – These buttons increase or decrease the channels. When the OSD is active, these buttons are used to select OSD options.

6. **Menu** – This button opens and cycles through the OSD menu. Pressing this button repeatedly will allow you to exit the main menu.

7. **Input** – This button switches between the available input sources in the following sequence: VGA, DVI, HDTV YPbPr, DVD, AVI, AV2/S, and TV. When the on-screen display (OSD) is active, this button accepts an OSD menu item.

1.9 - Rear Panel Connections
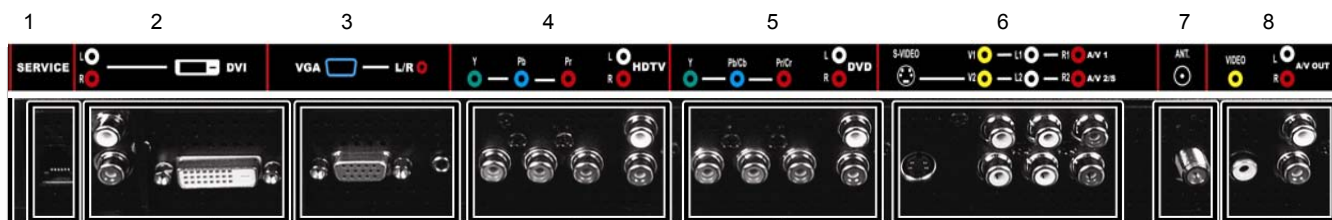
1. **Service** – To be used for factory service.

2. **DVI/Audio In** - Connect a DVD multimedia player, computer or set-top box and the audio through this connection. This is a digital only connector.

3. **VGA/Audio In -** Connect the video from a computer or set-top box and the audio from a computer, DVD multimedia player or set-top box.

4. **Component HDTV In (Y-Pb-Pr)** (green, blue, and red connectors) - Connect the external video devices, such as a DVD player or set-top box. Use the white and red connectors to connect the external audio from the same source. *Note: YPbPr is used for the following signals: 480i, 480p, 720p, and 1080i.*

5. **Component DVD In (Y-Pb/Cb-Pr/Cr)** (green, blue, and red connectors) - Connect the external video devices, such as a DVD player or set-top box. Use the white and red connectors to connect the external audio from the same source. *Note: YCbCr is used for 480i and 480p only.*

6. **AV In –** Connect composite and/or S-Video devices, such as a VCR of video games. Use the white and red connectors to connect the external audio from the same source.

7. **Antenna (TV Input)** - Connect to the antenna, satellite or cable service.

8. **AV Out -** Connect the video and audio from the LCD TV to an external source, i.e., an external amplifier or secondary TV. This output only supports S-video, AV1 and AV2. It does not support YPbPr, YCbCr, TV or RGB.

1.10 - VIZIO Universal Remote Control

The VIZIO Universal Remote Control is a comprehensive remote that can be used to control up to four different components. The remote control button functions are explained on the following pages.

VIZIO Universal Remote Control Button Description
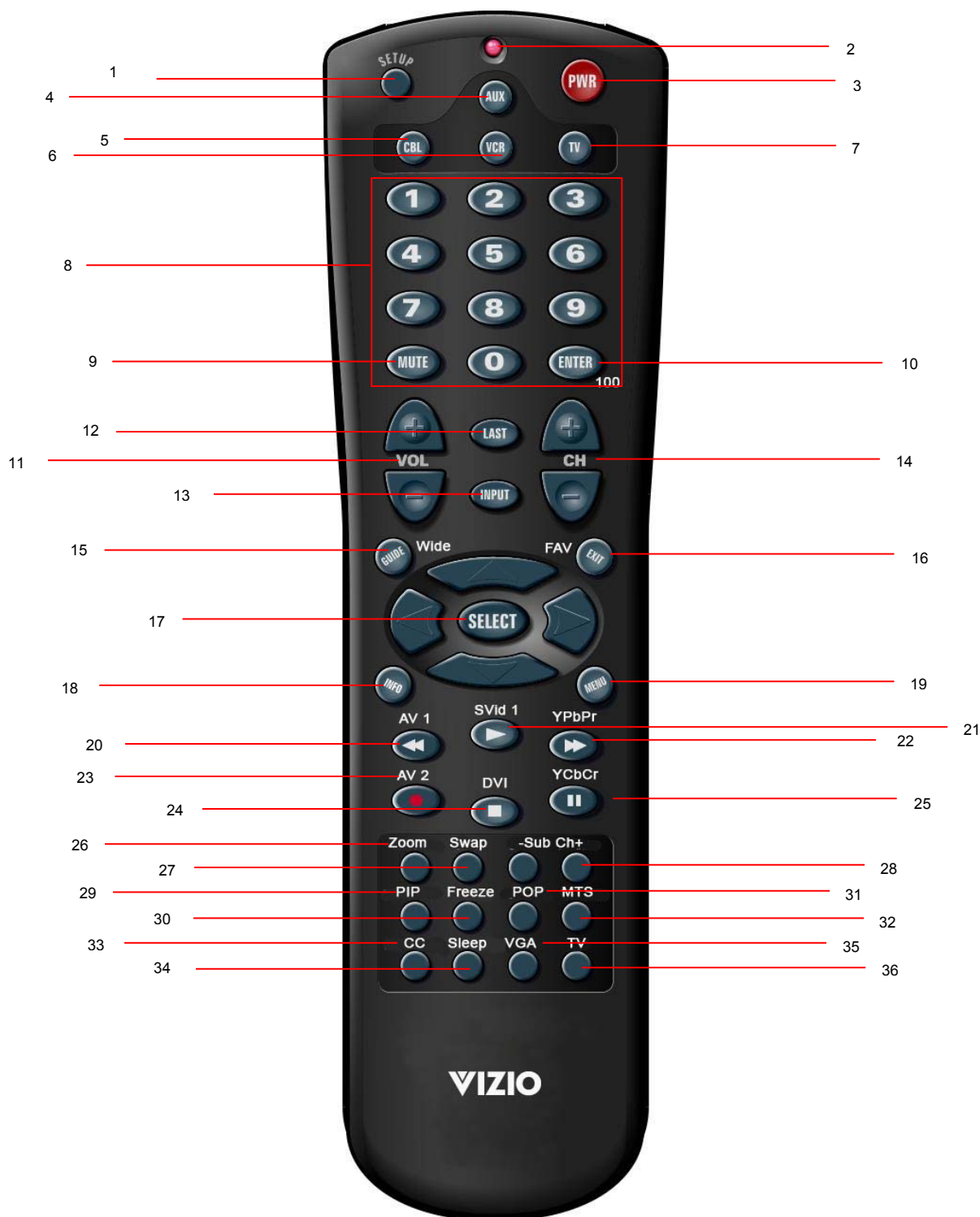
1.10.1 - Key Remote Control Functions

1.   SETUP – This button starts all programming sequences.
2.   Remote LED – Blinks when the remote is being programmed or is sending a signal to your LCD display.
3.   POWER – Press this key to turn the LCD display on from standby mode. Press it again to return to the standby mode.
4.   AUX – This button selects a programmed component.
5.   CBL – This button selects a programmed cable TV set-top box or selects a programmed satellite TV set-top box.
6.   VCR – This button selects a programmed VCR.
7.   TV – This button selects a programmed TV. Pre-programmed for the VIZIO L30 WGU LCD TV.

8.   Number Button Pad – These buttons select a channel or password.
9.   MUTE – This button turns the sound on and off.
10. 100/Enter – This button enters a channel number greater than 100 in TV mode. Additionally, it works as an ENTER button in other video modes.
11. VOL (+ or -) – These buttons turn volume up or down.
12. LAST – This button recalls the previously viewed channel.
13. INPUT – This button changes the input source.
14. CH (+ or -) – These buttons change the channels up or down.

15. WIDE/GUIDE – This button cycles through standard and widescreen viewing modes or accesses programming guides, such as the one that comes with a satellite dish. GUIDE does not work in TV mode.
16. FAV/EXIT – This button exits the component, guide or OSD menus. Additionally, it retrieves your favorite channels in TV mode.

   ▼▲►◄ - These buttons navigate the on-screen display (OSD) menus.
17. SELECT – This button works to select your chosen options in on-screen display (OSD) menus.
18. INFO – This button turns the image and system information display on or off.
19. MENU – This button is used to turn the OSD on or off.

20.   Reverse/AV1 – This button rewinds the CD, DVD or VCR when the component is activated with the remote control. Additionally, this button will select the AV1 component in TV mode.

21.   Play/SVid1 – This button plays the CD, DVD or VCR when the component is activated with the remote control. Additionally, this button will select the SVid1 component in TV mode.

22.   Forward/YPbPr – This button forwards the CD, DVD or VCR when the component is activated with the remote control. Additionally, this button will select the YPbPr component in TV mode.

23.   Record/AV2 – This button functions as a VCR Record when the component is activated with the remote control. Additionally, this button will select the AV2 component in TV mode.

24.   Stop/DVI – This button stops the CD, DVD or VCR when the component is activated with the remote control. Additionally, this button will select the DVI component in TV mode.

25.   Pause/YCbCr – This button pauses the CD, DVD or VCR when the component is activated with the remote control. Additionally, this button will select the YCbCr component in TV mode.

26.   ZOOM – Use this key to zoom the image in or out.

27.   Swap – Used to swap the inputs from the main screen, PiP or POP picture mode.

28.   – SubCh + – These buttons are used to select the channels within the PIP.

29.   PIP – Use this key to activate the picture-in-picture mode.

30.   FREEZE – Press this key to "Freeze-Frame", the current screen. You may press this key again to continue playing or play will resume automatically after one minute. *Note: This feature is not available on the L30 WGU.*

31.   POP – Use this key to activate the picture-on-picture mode.

32.   MTS – Press this key to select Stereo, SAP (separate audio program) or Mono audio. This function is available in the TV mode.

33.   CC – Press this key to select closed caption options.

34.   Sleep – Press this key to select the sleep options. User can adjust the sleep timer in 5 minute increments.

35.   VGA – This button selects a programmed VGA display.

36.   TV – This button selects a programmed TV. Pre-programmed for the VIZIO L30 WGU LCD TV.

Note: The remote control layout is for reference only.

1.10.2 - Insertion of Batteries in the Remote Control

Insert two AA batteries into the remote control. Make sure that you match the (+) and (-) symbols on the batteries with the (+) and (-) symbols inside the battery compartment. Re-attach the battery cover.

Precautionary Tips for Inserting the Batteries:

- Only use the specified AA batteries.
- Do not mix new and old batteries. This may result in cracking or leakage that may pose a fire risk or lead to personal injury.
- Inserting the batteries incorrectly may also result in cracking or leakage that may pose a fire risk or lead to personal injury.
- Dispose of the batteries in accordance with local laws and regulations.
- Keep the batteries away from children and pets.

1.10.3 - Remote Control Range

- Point the remote control at the remote control sensor to transmit the commands.
- Do not place any obstacles between the remote control and the receiver window.
- The effective range of the remote control is approximately 32 feet (10 meters) from the front of the receiver window, 30º to the left and right, 20º up and down.

1.10.4 - Precautions for the VIZIO Universal Remote Control
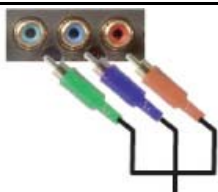
- The remote control should be kept dry and away from heat sources. Avoid humidity.
- If the display responds erratically to the remote control or does not respond at all, check the batteries. If the batteries are low or exhausted, replace them with fresh batteries.
- When not using the remote control for a long period of time, remove the batteries.
- Do not take apart the batteries, heat them, or throw them into a fire.
- Do not subject the remote control to undue physical stress, such as striking or dropping it.
- Do not attempt to clean the remote control with a volatile solvent. Wipe it with a clean, damp cloth.

Chapter 2 - Connecting Components

2.1 - Which Video Connection Should I Use?

The VIZIO L30 WGU LCD TV has five different ways to connect your video equipment from a basic one to the most advanced for digital displays.

Connection Quality	Cable and Connector	Description
OK		Coaxial RF. This is the only connection that has the audio and the video in one cable. If you have an antenna, this is the only way you can connect it to the LCD TV. If you have a VCR, you can connect your antenna/cable to the VCR RF Input and connect the VCR RF Output to this connector.
Basic		Composite. The complete video signal is carried through this single pin connector. This is the most commonly used video connection.
Good		S-Video. The video signal is separated into two signals, one containing the black-and-white information and the other containing the color information. Separating the color in this way avoids 'cross color' effects where closely spaced black and white lines are erroneously displayed in color. It also enables text to be displayed more sharply.
Better		Component. The video signal is separated into three signals, one containing the black-and-white information and the other two containing the color information. This enhancement over S-Video takes advantage of the superior picture provided by progressive scan DVD players and HDTV formats.
Best		Digital Video (DVI). All of the picture information is received digitally coded and it does not convert the signal from digital to analog. The other inputs are converted from analog to digital by the LCD TV. Movies are digitally encoded on DVD's and so by using a component such as the BRAVO D2 DVI Enabled DVD Player from V, Inc. with a DVI output it will produce the ultimate picture performance.

2.2 - Connecting Your DVD Player

You have several options for connecting your DVD player to your new L30 WGU LCD TV - DVI, Component, S-Video, and Composite inputs. Based on your home theater configuration, you can decide which option is the right one for you.

2.2.1 - Using Digital Video

DVD players that have a digital interface compliant with the DVI (Digital Visual Interface) standard, such as the BRAVO D2 DVI Enabled DVD Player from V, Inc., should be connected to the DVI input of the VIZIO L30 WGU LCD TV.

> *Note:*
> a) *Use TMDS signals conforming to DVI standards. The TMDS input is a single link input.*
> b) *To maintain the display quality, use a DVI cable from V, Inc. that is 10 meters or less.*

Installation:

1. Turn off the power to the LCD TV and DVD player.
2. Connect a DVI-D cable to the DVI output of your DVD player and the other end to the DVI input in the rear of your LCD TV.
3. Connect the R (red color) and L (white color) audio connectors on the rear of your DVD player to the R (red color) and L (white color) audio input connectors in the DVI Audio group in the rear of your LCD TV.
4. Turn on the power to the LCD TV and your DVD player.
5. Select DVI using the INPUT button on the front of the LCD TV.

> *Note:*
> a) *The DVI input on your LCD TV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.*
> b) *Refer to your DVD player user manual for more information about the video output requirements of the product.*

2.2.2 - Using Component Video

Installation:
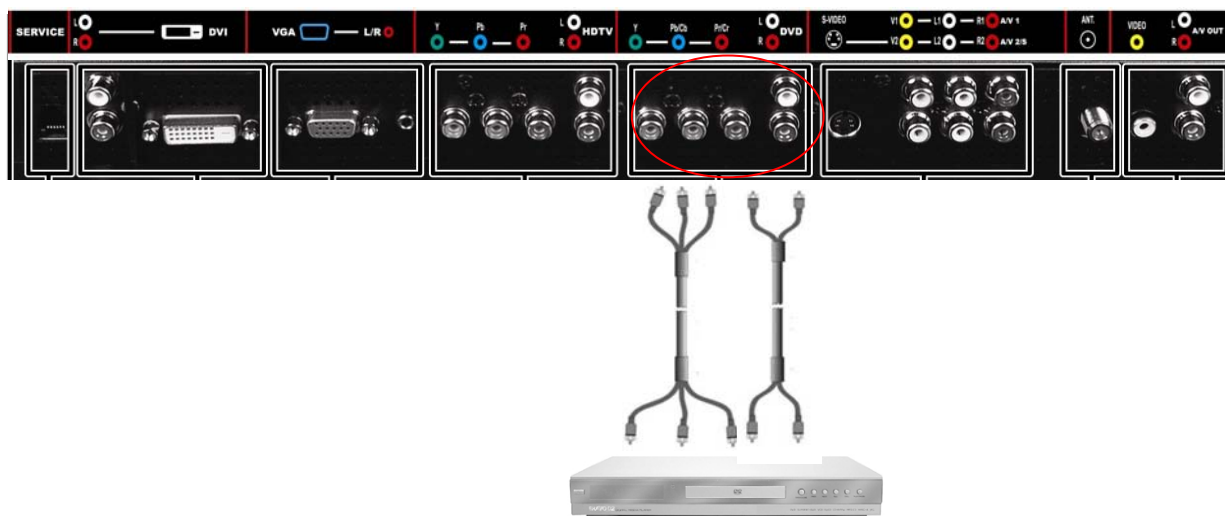
1. Turn off the power to the LCD TV and DVD player.
2. Connect the Y (green color) connector on the rear of your DVD player to the corresponding Y (green color) connector in the DVD group in the rear of your LCD TV.
3. Connect the Pb (blue color) connector on the rear of your DVD player to the corresponding Pb (blue color) connector in the DVD group in the rear of your LCD TV.
4. Connect the Pr (red color) connector on the rear of your DVD player to the corresponding Pr (red color) connector in the DVD group in the rear of your LCD TV.
5. Connect the R (red color) and L (white color) audio connectors on the rear of your DVD player to the R (red color) and L (white color) audio input connectors in the DVD group in the rear of your LCD TV.
6. Turn on the power to the LCD TV and DVD player.
7. Select DVD using the INPUT button on the front of the LCD TV.

Note: Refer to your DVD player user manual for more information about the video output requirements of the product.

2.2.3 - Using S-Video

Installation:

1. Turn off the power to the LCD TV and DVD player.
2. Connect the S-Video jack on the rear of your DVD player to the S-Video jack in the AV In group in the rear of your LCD TV.
3. Connect the R (red color) and L (white color) audio connectors on the rear of your DVD player to the R2 (red color) and L2 (white color) audio input connectors in the AV2/S group in the rear of your LCD TV.
4. Turn on the power to the LCD TV and DVD player.
5. Select AV2/S using the INPUT button on the front of the LCD TV.

Note: Refer to your DVD player user manual for more information about the video output requirements of the product.

2.2.4 - Using Composite Video

Installation:

1. Turn off the power to the LCD TV and DVD player.
2. Connect the Video (yellow color) connector on the rear of your DVD player to the V1 connector in the A/V 1 group in the rear of your LCD TV.
3. Connect the R (red color) and L (white color) audio connectors on the rear of your DVD player to the R1 (red color) and L1 (white color) audio input connectors in the A/V 1 group in the rear of your LCD TV.
4. Turn on the power to the LCD TV and DVD player.
5. Select AV1 using the INPUT button on the front of the LCD TV.

Note:
   a) If you are already using the V1 input for another component, or you do not want to use the V1 input for the DVD player, you can connect the DVD player to the V2 in the A/V In group. If you are using V2, then please make sure you connect the audio in the AV2/S group.
   b) Refer to your DVD player user manual for more information about the video output requirements of the product.

2.3 - Connecting Your HDTV Set-Top Box

You have several options for connecting your HDTV Set-Top Box to your new L30 WGU LCD TV: DVI and RGB inputs. Based on your home theater configuration, you can decide which option is the right one for you.

2.3.1 - Using Digital Video

HDTV Set-Top Boxes that have a digital interface compliant with the DVI (Digital Visual Interface) standard can be connected to the DVI input of the LCD TV.

> *Note:*
> *a) Use TMDS signals conforming to DVI standards. The TMDS input is a single link input.*
> *b) To maintain the display quality, use a DVI cable from V, Inc. that is 10 meters or less.*

Installation:
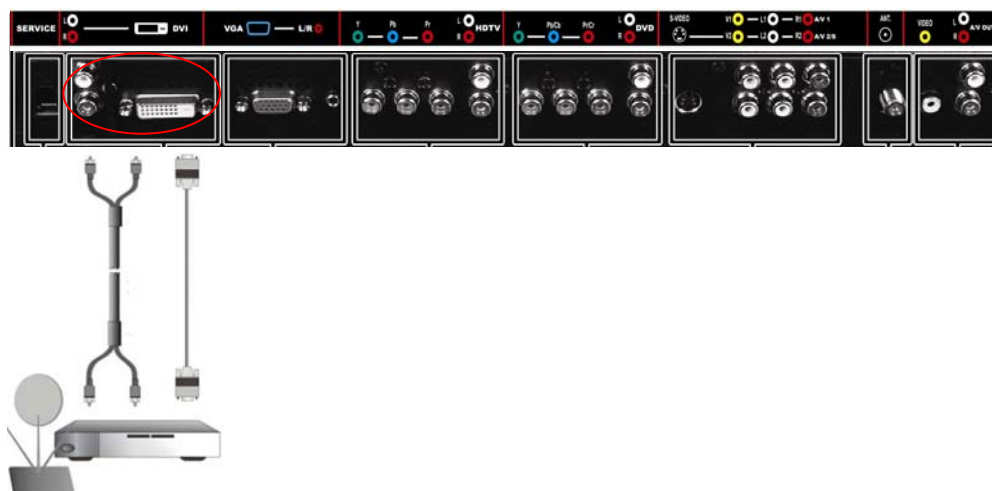
1. Turn off the power to the LCD TV and HDTV Set-Top Box.
2. Connect a DVI-D cable to the DVI output of your HDTV Set-Top Box and the other end to the DVI input in the rear of your LCD TV.
3. Connect the R (red color) and L (white color) audio connectors on the rear of your HDTV Set-Top Box to the R (red color) and L (white color) audio input connectors in the DVI group in the rear of your LCD TV.
4. Turn on the power to the LCD TV and your HDTV Set-Top Box.
5. Select DVI using the INPUT button on the front of the LCD TV.

> *Note:*
> *a) The DVI input on your LCD TV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.*
> *b) Refer to your HDTV Set-Top Box user manual for more information about the video output requirements of the product or consult your satellite or cable operator.*

2.3.2 - Using RGB Video

Installation:
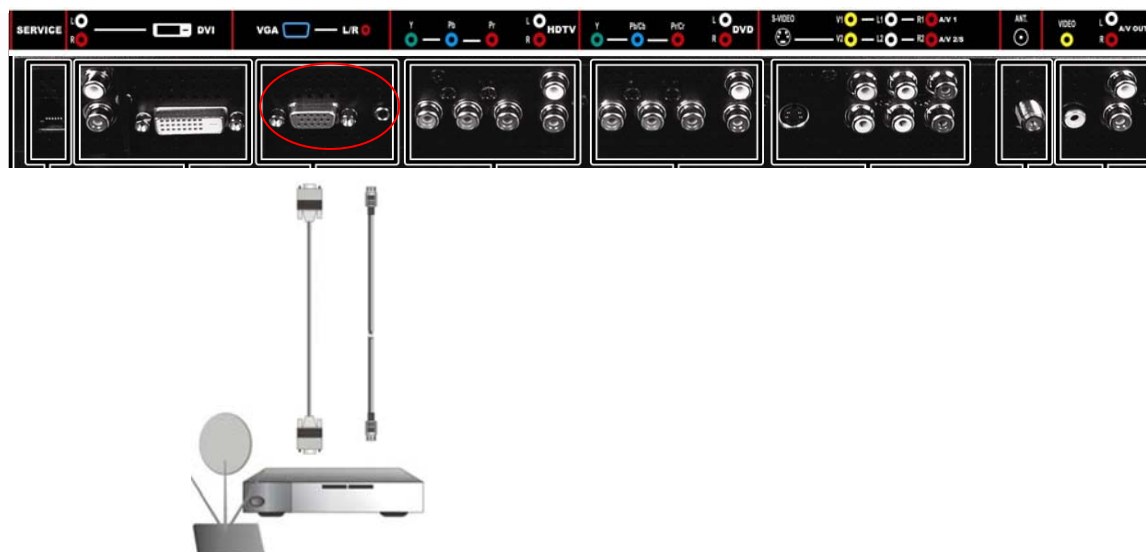
1. Turn off the power to the LCD TV and HDTV Set-Top Box.
2. Connect a 15-pin D-Sub RGB cable to the RGB output of your HDTV Set-Top Box and the other end to the VGA input in the rear of your LCD TV.
3. Connect the Audio Out on your HDTV Set-Top Box to the Audio (L/R) within the VGA group on your LCD TV.
4. Turn on the power to the LCD TV and your HDTV Set-Top Box.
5. Select VGA using the INPUT button on the front of the LCD TV.

Note: Refer to your HDTV Set-Top Box user manual for more information about the video output requirements of the product or consult your satellite or cable operator.

2.4 - Connecting Your VCR or Video Camera

Installation:

1. Turn off the power to the LCD TV and VCR or video camera.
2. Connect the S-Video jack on your VCR or video camera to the S-Video jack in the AV In group in the rear of your LCD TV.
3. Connect the R (red color) and L (white color) audio connectors on your VCR or video camera to the R2 (red color) and L2 (white color) audio input connectors in the AV2/S group in the rear of your LCD TV.
4. Turn on the power to the LCD TV and VCR or video camera.
5. Select AV2/S using the INPUT button on the front of the LCD TV.

Note: Refer to your VCR or video camera user manual for more information about the video output requirements of the product.

2.5 - Connecting Coaxial (RF)

There are several options for connecting your antenna or cable to your new L30 WGU LCD TV - directly to the TV or through your VCR. Based on your home theater configuration, you can decide which option is the right one for you.

2.5.1 - Using Your Antenna or Cable TV

Installation:

1. Turn off the power to the LCD TV.
2. Connect the coaxial (RF) connector from your antenna or cable box to the ANT connector on the rear of your LCD TV.
3. Turn on the power to the LCD TV
4. Select TV using the INPUT button on the front of the LCD TV.

> *Note: See page 26 for selecting the TV source within the OSD menus (antenna, cable, HRC and IRC). Make sure the antenna or cable TV is correctly grounded.*

2.5.2 - Using the Antenna through Your VCR

Installation:
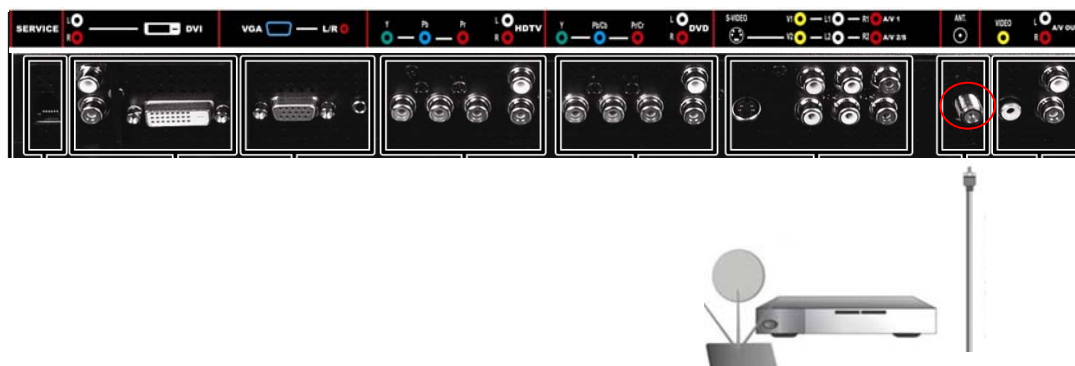
1. Turn off the power to the LCD TV and VCR.
2. Connect the "Output to TV" (RF Out or Antenna Out) connector on the rear of your VCR to the ANT connector on the rear of your LCD TV.
3. Turn on the power to the LCD TV and VCR.
4. Select TV using the INPUT button on the front of the LCD TV.
5. Select *Channel 3 or 4 t*o match the channel selected on the rear of your VCR.

> *Note:*
> *   a) If you have an off-air antenna or cable TV, connect the off-air antenna or TV cable to the RF connector on the rear of your VCR.*
> *   b) Make sure the antenna or cable TV is correctly grounded.*

2.6 - Connecting External Amplified Speakers

Installation:

1. Turn off the power to the LCD TV and external speakers.
2. Connect the R (red color) and L (white color) audio connectors on the rear of your speakers to the R (red color) and L (white color) audio output connectors in the A/V Out group in the rear of your LCD TV.
3. Turn on the power to the LCD TV and speakers.
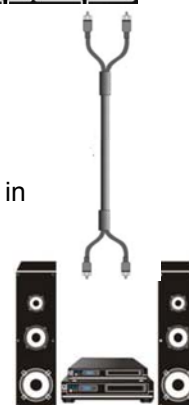
2.7 - Connecting an External Receiver or Amplifier

You can connect an external receiver or amplifier to your LCD TV. Your LCD TV is equipped with an external speaker switch that can automatically send a remote turn-on/off signal to the connected external receiver or amplifier.

Installation:

1. Turn off the power to the LCD TV and receiver or amplifier.
2. Connect the R (red color) and L (white color) audio connectors on the rear of your receiver or amplifier to the R (red color) and L (white color) audio output connectors in the A/V Out group in the rear of your LCD TV.
3. Turn on the power to the LCD TV and receiver or amplifier.

2.8 - Connecting a Computer

Installation:
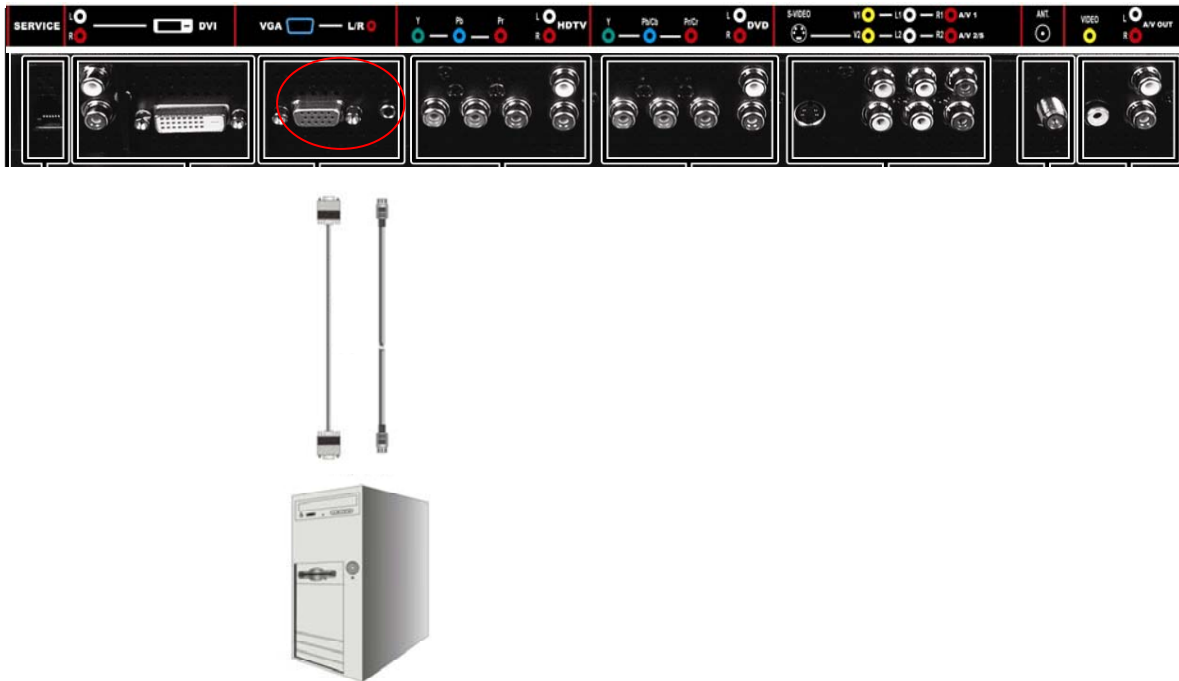
1. Turn off the power to the LCD TV and Computer.
2. Connect a 15-pin D-sub RGB cable to the RGB output of your computer and the other end to the VGA input in the rear of your LCD TV.
3. Connect the RGB Audio Out on your computer to the VGA Audio (L/R) at the rear of your LCD TV.
4. Turn on the power to the LCD TV and your computer.
5. Select VGA using the INPUT button on the front of the LCD TV.

Note: Refer to your computer user manual for more information about the video output requirements of the product.

Chapter 3 - Getting Started

3.1 - Turning your LCD TV On and Off

1. Connect the power cord to the power cord connector on the back of your LCD TV, and then plug the power cord into an AC wall socket.

2. Press the POWER button on the front panel or the POWER button on the remote control to power on the LCD TV. The POWER indicator on the front panel will light green.

3. Select input source for the LCD TV, via either OSD menu or remote control.

4. If connecting to antenna, cable or other RF source on TV inputs, see page 26 to configure the product to receive all available channels.
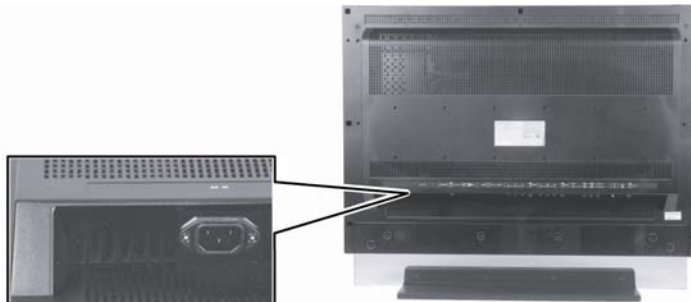
Note: For the best picture quality when connecting a PC through RGB or DVI, set your product timing mode to VESA 1280 x 768 at 60 Hz. Please refer to the graphic card's user guide for additional information on how to set the timing mode.

3.2 - Watching a TV program

Before you start watching TV, please make sure that any cable, satellite, or off-air antenna connections are secure. Also, verify that the power cord is plugged into a correctly grounded electrical outlet or surge protector.

1. Press the power button on the front of your LCD TV. The status LED on the front turns green.
2. There are 2 options for selecting your programming:
   a) Select TV using the INPUT button on the front of your LCD TV if you are watching a cable TV box or off-air antenna.
   <OR>
   b) Select HDTV using the Input button on the front of your LCD TV if you are watching your satellite dish.

Note: You should be able to see a picture. If you do not, make sure that all connections are secure and you have selected the correct video input source.

3. Press the Channel ▼/▲ buttons on the front of your LCD TV to change the channel.
   Note: The Channel ▼/▲ buttons on the front of the TV do not work if you are watching a program using HDTV input.

To make additional adjustments to your LCD TV, please see "Section 3.4 Adjusting Basic LCD TV Settings" on page 23.

3.3 - Preparing the LCD for Wall Mounting

The VIZIO L30 WGU can either be kept on the base stand or mounted to the wall for viewing. If you choose to mount the L30 WGU to the wall, please follow the instructions below for removing the base stand.

To remove the stand base:

1. Unplug all the cables and cords from the LCD TV.

2. Place the LCD TV face down on a soft and flat surface (blanket, foam, cloth, etc) to prevent any damage to the display.

3. Remove the 6 screws on the stand base of the LCD TV.

> *Note: Please make sure you secure the base of the stand so that the glass does not fall when the screws are loosened.*
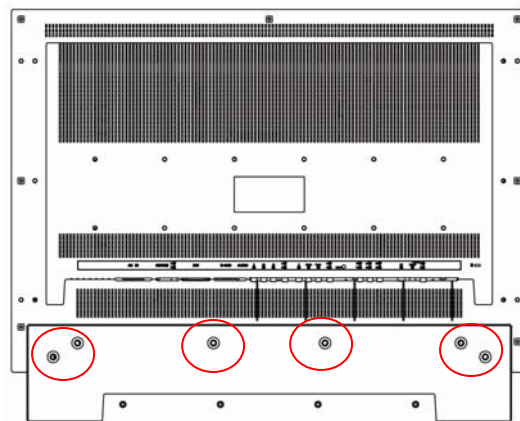
4. Remove the glass and stand safely from the back panel.

Now, the LCD TV will fit flush against a LCD TV wall mount. Please make sure to read the directions of your specific wall mount to properly hang the L30 WGU.

3.4 - Adjusting Basic LCD TV Settings

Volume

> To increase the volume, press and hold the VOL + button on the front panel or remote control until the desired level is reached.

> To decrease the volume, press and hold the - VOL button on the front panel or remote control until the desired level is reached.

TV Channels

> To step up through the available TV channels, press the CH + button on the front panel or remote control once for the next channel or hold it depressed until the desired channel is reached.

> To step down through the available TV channels, press the - CH button on the front panel or remote control once for the previous channel or hold it depressed until the desired channel is reached.

Wide

> Using this feature you can watch video content in Panoramic, Widescreen, Zoom or Standard mode. Press the WIDE button on the remote control to switch among the modes.

3.5 - Using the On-Screen Display (OSD)

The remote control or the bottom control keys on the front panel of the LCD TV can control all the function settings. The on-screen display (OSD) allows you to adjust and save contrast, brightness and other settings. The LCD TV will save changes made to the settings even if the LCD TV is turned off.

3.5.1 - Menu Operations

The OSD consists of several menu options: Video, Audio, TV and Setup. The main menu options may vary depending on your selected input source. Some of the main menu options may have additional sub menus, i.e. Blocking Menu within the Setup Menu.

1. Press the MENU button on the front of the TV and the Main Menu will be displayed on the screen.

2. Use the Channel (▲/▼) buttons on the front of the LCD TV or ▲/▼ buttons on the remote control to select a menu option.

3. Use the Volume (◄/►) buttons on the front of the LCD TV or ◄/► on the remote control to adjust the option setting.

4. Press the SELECT button on the remote control to confirm the feature.

5. Repeat steps 2 through 4 to adjust additional options within this menu.

6. Once the adjustments are completed, press the Menu button on the LCD TV or on the remote control again to modify the next menu (Picture, Audio, TV, or Setup). Press the Menu button on the LCD TV or on the remote control to cycle through the main menu options.

7. Press the Exit button on the remote control to exit the OSD completely.

3.5.2 - OSD Menus and Options

The OSD menus and options are used to adjust various settings on your LCD TV. Some of the menu options can vary depending on the video input source that you are using.

3.5.2.1 - Video
Available for the following input sources - AV1, AV2/S, DVD, HDTV and TV input.

Brightness – Adjusts the black levels of the picture. Users may need to readjust the brightness after the LCD TV warms up.

Contrast – Adjusts the level of white between the lightest and darkest portions of an image. If the contrast is too low, the picture appears dark and lacks detail. If the contrast is too high, the picture appears faded and lacks shadow and depth.

Color – Adjusts the levels of white and color in the picture. Highly saturated colors tend to be deep and strong while unsaturated colors are weaker and lighter.

Tint – Adjusts the amount of white or black in a color. For example, if the red looks pink, you can adjust the tint to make the red more intense.

Sharpness – Adjusts the clarity of the picture. If the sharpness is set incorrectly, the picture appears fuzzy or out of focus.

Color Temp. – Adjusts the intensity of the colors in the picture. A "cool" or low color temperature is good for watching movies or for watching programs in a darkened environment. A "warm" or high color temperature is good for daylight viewing like sporting events.

Noise Reduction – Eliminates video noise. *Note: this option is only available in TV mode.*

3.5.2.2 - Picture
Available for the following input sources – VGA and DVI input.

Brightness – Adjusts the black levels of the picture. Users may need to readjust the brightness after the LCD TV warms up.

Contrast – Adjusts the level of white between the lightest and darkest portions of an image. If the contrast is too low, the picture appears dark and lacks detail. If the contrast is too high, the picture appears faded and lacks shadow and depth.

Auto Picture – Automatically sets the position and size of the picture.

Manual Picture – Manually sets the position and size of the picture.

Sharpness – Adjusts the clarity of the picture. If the sharpness is set incorrectly, the picture appears fuzzy or out of focus.

Color Temp. – Adjusts the intensity of the colors in the picture. A "cool" or low color temperature is good for watching movies or for watching programs in a darkened environment. A "warm" or high color temperature is good for daylight viewing like sporting events.
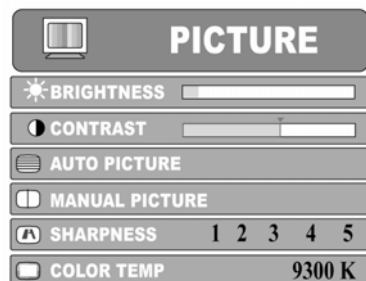
3.5.2.3 - **Audio**

Volume – Adjusts the volume.
Treble – Adjusts the treble.
Bass – Adjusts the bass.
Balance – Adjusts the balance level between the channels.
Spatial – Enhances the stereo sound of the built-in speakers.
MTS (*TV mode only*) – Changes the sound output for TV
  programs. Switch between STEREO, MONO, or SAP
  (Second Audio Program) for audio simulcasts. The TV
  program must support the output option.
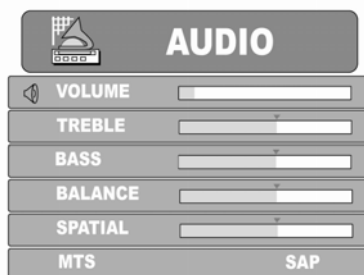
3.5.2.4.1 - **TV**

Source – Sets the source for the tuner. Options include
  Antenna or Cable. Antenna sets the tuner for an antenna
  and CABLE sets the tuner for cable or a satellite dish.
Cable Mode – Specifies the type of cable system you subscribe
  to. Options include Standard, HRC, IRC, and Auto. For
  most cable systems, you can set this value to Auto.
  However, if you are not receiving all the channels you
  subscribe to, you may need to set this value.
Channel Scan – Adds all channels that have a signal to the channel list.
CC Mode – Turns captioning on and off and selects the closed caption style. Options include
  Text 1, Text 2, CC1 or CC2.
Parental Controls – Activates parental controls. For more information about Parental Controls,
  see the BLOCKING menu below. Access to the Blocking Submenu is only available by
  entering a password. For your convenience the default has been set to "0000". For more
  information, see Section 3.5.5 - Setting a Password, page 31.
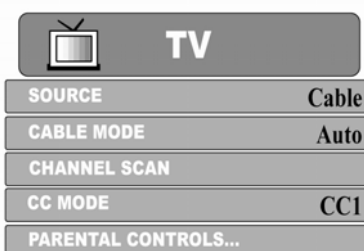
3.5.2.4.2 – **Blocking**
Access to this menu is only available through the Parental
Controls.

Change Password - Changes the password used for modifying
  the parental control settings or watching a program blocked
  by the parental controls. For more information, see Section
  3.5.5 - Setting a Password, page 31.
Setup TV Blocking - Sets the level of television programs that
  will be blocked without typing in the password. For more
  information, see Section 3.5.4 - Using the Parental Controls, page 30.
Setup Movie Blocking - Sets the level of movies that will be blocked without typing in the
  password. For more information, see Section 3.5.4 - Using the Parental Controls, page 30.
Blocking Enable - Turns TV and movie blocking on or off.
Key Lockout - Locks the LCD TV so it cannot be controlled using the buttons on the front of the
  TV. Options include Lock All, Lock None, and Lock All But Power.
IR Lockout - Locks the LCD TV so it cannot be controlled using the remote control. The user
  must use the buttons on the LCD TV to control the television.
Factory Reset - Resets all settings to the factory default.
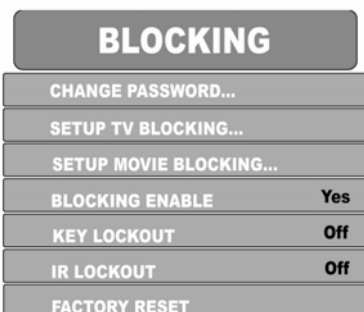
3.5.2.5.1 – Setup

Language - Changes the language of the OSD menu. Options include French, Spanish, or English.

Gamma - Changes the color space. Options include Linear, Vivid1, Vivid2 and Vivid3.

Wide - Changes the viewing mode. Options include Zoom, Standard, Panoramic, or Widescreen. For more information, see Section 3.5.3 – Understanding Viewing Features, page 28.

PIP - Modifies the Picture-in-Picture settings. To access these settings, press Select on the remote control. For more information, see below.

OSD Style - Switches the OSD background from opaque to translucent.
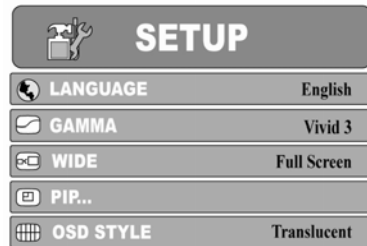
3.5.2.5.2 – PiP

This submenu is only available through the PIP submenu in the Setup Menu. After you are finished making the necessary adjustments, then press "Exit" to return to the Setup Menu.

Switch - Turns Picture-in-Picture on or off.

Style - Changes the size of the PIP sub-picture. Sizes include Small, Medium, and Large.

POS - Moves the sub-picture within the display image.

Wide - Sets the viewing mode of the PIP sub-picture. Modes include standard and widescreen.

Source - Changes the video input source of the sub-picture when PIP is turned on. Sources include AV1, AV2/S, 480i DVD and TV.

PIP TV Channel - Changes the PIP channel if the source is set to TV. Use the Sub CH (-/+) buttons on the remote control to change the channel up or down.
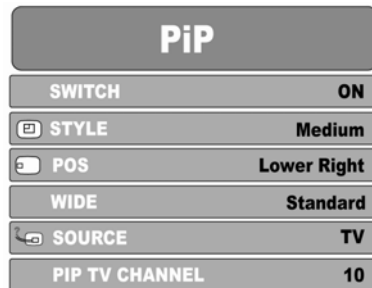
For additional information regarding the PIP options, see 3.5.3.2 - Picture-in-Picture (PiP) Mode, page 29.

3.5.3 - Understanding Viewing Features

Your LCD TV features four viewing modes and Picture-in-Picture (PIP) mode. You can switch viewing modes using the on-screen display (OSD) or the remote control. For more information on using the OSD, see 3.5.2 - OSD Menus and Options, page 25.

3.5.3.1 - Viewing modes

3.5.3.1.1 - Standard Mode - The original 4:3 aspect ratio (1.33:1 source) is preserved, so black bars are added to the left and right of the display image. Standard TV broadcasts are displayed with a 4:3 Aspect Ratio. Movies in 4:3 Aspect Ratio may be referred to as pan-and-scan or full frame. These movies were originally filmed in 16:9 (widescreen), and then modified to fit a traditional TV screen (4:3).
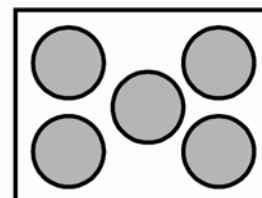
3.5.3.1.2 - Widescreen Mode - When watching a standard broadcast or full-frame movie in this mode, the display image is stretched proportionately to fill the TV screen. When watching a widescreen (1.76:1 source) program or movie, the display image fills the TV screen. If you are watching a widescreen (1.85:1 or 2.35:1 source) program or movie, there will still be black bars at the top and bottom.
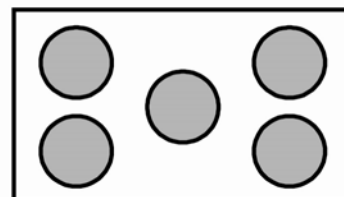
3.5.3.1.3 - Panoramic Mode - When watching a standard broadcast or full frame movie in this mode, the 4:3 Aspect Ratio (1.33:1 source) display image is stretched horizontally on the left and right sides to fill the TV screen. The center of the image is not stretched.
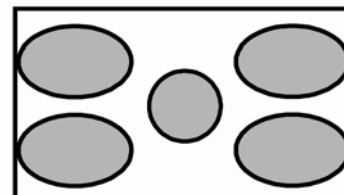
3.5.3.1.4 - Zoom Mode - When watching a widescreen (1.76:1, 1.85:1, or 2.35:1 source) program or movie, the display image is zoomed proportionally to fill the width of the screen. The top and bottom are cut off to remove most of the source material's black bars. This mode is good for programs or movies with sub-titles.
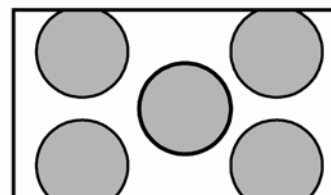
Note: Viewing modes and volume settings are saved based on input. For example, you last watched a DVD in widescreen mode and at high volume, and then watched TV in standard mode and low volume. When you switch back to DVD input, the viewing mode will return to widescreen and your volume will be high.

3.5.3.2 - Picture-in-Picture (PiP) Mode

Your LCD TV features PIP mode so you can watch two pictures at the same time. You can use PIP mode if your PIP video input source is set to TV, AV1, AV2/S, or 480i DVD. See below for detailed information regarding the PIP sources.

Main Source	PiP Source						
	TV	AV1	AV2/S	DVD	HDTV	VGA	DVI
TV	x	x	x	480i	NA	NA	NA
AVI	x	x	x	480i	NA	NA	NA
AV2/S	x	x	x	480i	NA	NA	NA
DVD	x	x	x	480i	NA	NA	NA
HDTV	x	x	x	480i	NA	NA	NA
VGA	x	x	x	480i	NA	NA	NA
DVI	x	x	x	480i	NA	NA	NA

Note: You cannot use HDTV, VGA, DVI, or 480p DVD video as Picture-in-Picture (PIP) sources.

When PIP is turned on, you can display two pictures at one time. One picture is displayed on the full screen and the other picture is displayed in a small window. The picture on the full screen is the main picture. The picture in the window is the sub-picture. The sub-picture can be set to small, medium, or large.

Adjusting Basic PIP Settings

3.5.3.2.1 - PIP Channel

The PIP channel is independent of the main TV channel. To change the PIP channel, press the PIP CH + or - button on the remote control.

3.5.3.2.2 - Swapping PIP Video

You can swap the program that is in the main picture with the program in the PIP sub-picture. To swap the main picture program with the PIP sub-picture program, press SWAP on the remote control. If you press SWAP again, it will return the program to the main picture.

3.5.4 - Using the Parental Controls

The Parental Controls feature prevents viewers from watching programs that are not age-appropriate, such as programs containing violence or adult language.

1. Press the MENU button 3 times on the remote control until the TV menu opens.

2. Press ▼ button to highlight PARENTAL CONTROLS, and then press SELECT. The "Enter Password" window opens.

3. Use the number pad to type the password, then press OK. The password was set to "0 0 0 0" at the factory. The BLOCKING sub-menu opens.

4. Press ▼ button to highlight SETUP TV BLOCKING, and then press the SELECT button on the remote control. The "TV-Rating" window opens.
   On this window, you can customize the following TV ratings:
   > Y (all children)
   > Y7 (older children)
   > G (general audience)
   > PG (guidance suggested)
   > 14 (strongly cautioned)
   > MA (mature audience)

   You can also customize the TV ratings for the following content:
   > FV (fantasy violence)
   > D (sexual dialog)
   > L (adult language)
   > S (sexual situations)
   > V (violence)
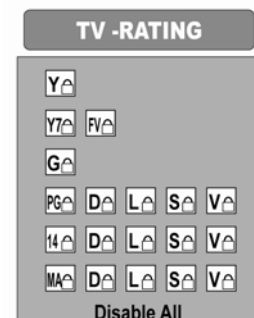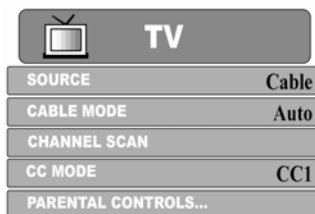
5. Press the ▼ or ▲ button to select each area, and then press ◄ or ► button to toggle between the options (FV, D, L, S, or V). Press the SELECT button on the remote control to block or unblock each area.
6. Press the MENU button on the remote control to return to the submenu.
7. Press ▼ button to highlight SETUP MOVIE BLOCKING, and then press the SELECT button on the remote control. The MPAA window opens. On this menu, you can customize the following MPAA movie ratings:
   > G (general audience)
   > PG (parental guidance suggested)
   > PG-13 (recommended for children 13 years of age or older)
   > R (mature audience)
   > NC-17 (no one under 17 years of age)
   > X (no one under 17 years of age)
8. Press the ▼ or ▲ button to select each rating, and then press SELECT button on the remote control to toggle the rating to blocked or unblocked.
9. Press the MENU button on the remote control to return to the submenu.
10. Press ▼ button to highlight BLOCKING ENABLE, then press ◄ or ► button to toggle the blocking enable to yes.
11. Press the EXIT button the remote control to exit the OSD menu when you are finished.
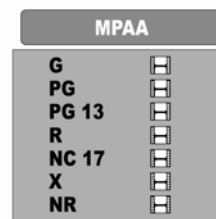
3.5.5 - Setting a Password

You control access to the Parental Control features with a password. The default password is "0000". You can change the password to any four-digit number.

To change the password:
1. Press the MENU button three times on the remote control until the TV menu opens.
2. Press ▼ until the PARENTAL CONTROLS is highlighted. Press SELCT and the Enter Password window opens.
3. Use the number pad to type the password, then press SELECT. For your convenience, the password was set to "0000" at the factory. Once the password has been successfully entered, the BLOCKING sub-menu opens.
4. Highlight CHANGE PASSWORD, and press SELECT. The Change Password window opens.
5. Use the number pad to type the new password.
6. Use the number pad to retype the new password.
7. Press the EXIT button on the remote control immediately to exit the OSD menu.

Note: Please make sure to write down and store the new password in a secured place. The factory reset option in the Blocking menu (see 3.5.2.4.2 – Blocking, p. 26) does not reset the password.

3.5.6 - Setting the Sleep Timer

The sleep timer lets you set a time delay to turn off your LCD TV automatically.

To set the sleep time using the remote control:
1. Press the TV component button.
2. Press the SLEEP button on the remote control. The sleep timer appears in the center of your screen.
3. Press the SLEEP button one or more times to select the time you want. Options include 30, 60 or 90 minutes.
4. Press the EXIT button on the remote control to hide the sleep timer display. Your sleep timer is now running in the background.

To turn off the sleep time using the remote control, press the SLEEP button repeatedly until Off appears.

3.6 - Remote Control Operation

3.6.1 - Programming the VIZIO Universal Remote Control

You can program the remote control to work with up to four different components. Listed below are the steps for programming your TV, VCR, Cable Box and DVD Player.

3.6.1.1 - Programming for TV

For your convenience, the TV button on the remote has already been preprogrammed for the L30 WGU. If you would like to program a second TV as the primary TV, please follow the instructions below.

1. Manually turn on the TV.
2. Press the TV button on the remote control.
3. Press and hold the SETUP button until the LED LIGHT flashes twice.
4. Find the programming code for your TV in the code list in the back of this book and enter it using the Number Buttons. If the code is accepted, the LED flashes twice after the last digit is entered.

    If the LED does not flash twice, repeat Steps 2 through 4 with the next code listed for the component and manufacturer.

5. Point the remote control at the TV and press the POWER button. The TV will turn off.

Note:
   a) If your TV does not respond, try all the codes for your brand. If the codes do not work, or your brand is not listed, see "Searching for Component Codes", page 34.
   b) Sometimes a code listed will only include limited functions. Try other codes that may include more functionality.

3.6.1.2 - Programming for VCR

1. Manually turn on the VCR.
2. Press the VCR button on the remote control.
3. Press and hold the SETUP button until the LED LIGHT flashes twice.
4. Find the programming code for your VCR in the code list in the back of this book and enter it using the Number Buttons. If the code is accepted, the LED flashes twice after the last digit is entered.

    If the LED does not flash twice, repeat Steps 2 through 4 with the next code listed for the component and manufacturer.

5. Point the remote control at the VCR and press the POWER button. The VCR will turn off.

Note:
   a) If your VCR does not respond, try all the codes for your brand. If the codes do not work, or your brand is not listed, see "Searching for Component Codes", page 34.
   b) Sometimes a code listed will only include limited functions. Try other codes that may include more functionality.

3.6.1.3 - Programming for Cable Box

1. Manually turn on the Cable Box.
2. Press the CBL button on the remote control.
3. Press and hold the SETUP button until the LED LIGHT flashes twice.
4. Find the programming code for your Cable Box in the code list in the back of this book and enter it using the Number Buttons. If the code is accepted, the LED flashes twice after the last digit is entered.

   If the LED does not flash twice, repeat Steps 2 through 4 with the next code listed for the component and manufacturer.

5. Point the remote control at the Cable Box and press the POWER button. The Cable Box will turn off.

> *Note:*
> a) *If your Cable Box does not respond, try all the codes for your brand. If the codes do not work, or your brand is not listed, see "Searching for Component Codes", page 34.*
> b) *Sometimes a code listed will only include limited functions. Try other codes that may include more functionality.*

3.6.1.4 - Programming for AUX (DVD Player)

1. Manually turn on the DVD Player.
2. Press the AUX button on the remote control.
3. Press and hold the SETUP button until the LED LIGHT flashes twice.
4. Find the programming code for your DVD player in the code list in the back of this book and enter it using the Number Buttons. If the code is accepted, the LED flashes twice after the last digit is entered.

   If the LED does not flash twice, repeat Steps 2 through 4 with the next code listed for the component and manufacturer.

5. Point the remote control at the DVD Player and press the POWER button. The DVD Player will turn off.

> *Note:*
> a) *If your DVD Player does not respond, try all the codes for your brand. If the codes do not work, or your brand is not listed, see "Searching for Component Codes", page 34.*
> b) *Sometimes a code listed will only include limited functions. Try other codes that may include more functionality.*

3.6.2 - Searching for Component Codes

If the user cannot find the manufacturer in the component list or the program code does not work, the user can use the remote control to search for the correct component code.

To search for a component code:
1. Turn on the component.
2. Press the matching component button on the remote control.
3. Press and hold the SETUP button until the LED flashes twice.
4. Press 9 9 1. The LED flashes twice.
5. Point the remote control at the component and then alternate between pressing the POWER button and the component button on the remote control until the component turns off.

   If the component still does not respond, clear the component button, then repeat the search procedure.

To clear the component button:
1. Make sure that the component is turned on.
2. Press and hold the SETUP button on the remote control until the LED flashes twice.
3. Press 9 9 2, then press the component button on the remote control twice.

3.6.3 - Reassigning Component Buttons

You can reassign the component buttons on the remote control if you have more than one of the same types of component. For example, if you are using the remote to control the cable (CBL), CD, DVD, TV and two VCRs, you can reassign the AV2 button as a second VCR button.

To reassign component buttons:
1. Press and hold the SETUP button until the LED flashes twice.
2. Press 9 9 2. The LED flashes twice.
3. Press the component button that you want (VCR) once, and then press the component button that you are reassigning (AV2) once. The AV2 button is now reassigned and can be programmed as a VCR component button. See "Programming the VIZIO Universal Remote Control", page 32.

3.6.4 - Changing Volume Lock

The remote control is set to control volume through your TV while in cable (CBL), DVD, satellite (SAT) and VCR component modes. Use the volume lock if you want to control the volume for all components through a specific component. For example, you want to control volume for all components through the tuner (TNR).

To change the volume lock:
1. Press and hold the SETUP button until the LED flashes twice.
2. Press 9 9 3. The LED flashes twice.
3. Press the component button that you want (TNR) once. The LED flashes twice. Volume will now be controlled through the tuner for all components.

3.6.5 - Teaching the Remote Control New Functions

The remote control can learn up to 25 additional functions from the component's original remote control. For example, your DVD player remote control has a scan function that you may use frequently. Since there is not a scan button on the VIZIO remote control, you can assign a button and use the remote to teach the remote control the scan function.

> *Note:*
> *Make sure that you have already programmed the remote control for the component. See "Programming the VIZIO Universal Remote Control" on page 32.*
> *Make sure that area lighting is not too bright or it will interfere with the learning process.*

To teach the remote control a new function:
1. Press and hold the SETUP button on the remote control until the LED flashes twice.
2. Press 9 7 5. The LED flashes twice.
3. Press the component button that you want (DVD) once.
4. Press the button that you are assigning the new function to. The LED flashes quickly while it is waiting to receive the signal from the teaching remote.
5. Hold the teaching remote control approximately 1-inch (2.54 cm) from the remote control making sure that the infrared ports are lined up. Then press the button on the teaching remote that you want the remote to learn. The LED flashes twice.
6. Press the SETUP button to exit learning mode.

Chapter 4 - Maintenance and Troubleshooting

4.1 - Maintenance

Important

1. Make sure that the power cable is removed from the socket before cleaning the display.
2. Do not use volatile solvent (such as toluene, rosin and alcohol) to clean the display. Such chemicals may damage the housing, screen glass and remote control, and cause the paint to peel.

Cleaning the Housing and the Remote Control

1. Use a soft cotton cloth for cleaning.
2. If the housing or remote control is seriously contaminated, use a soft cloth moistened with diluted neutral cleaner to clean the display. Wring water out of the cloth before cleaning to prevent water from penetrating into the housing. Wipe the display with a dry cloth after cleaning.

Cleaning the Screen

1. Use a soft cotton cloth to gently clean the screen.
2. The screen glass is very fragile. Do not scrape it with any sharp object. Do not press or tap the screen to avoid cracking. When the screen is seriously contaminated, use a soft cloth moistened with diluted neutral cleaner to clean the display. Wring water out of the cloth before cleaning to prevent water from penetrating into the housing. Wipe the display with a dry cloth after cleaning.

4.2 - Troubleshooting Guide

If the display fails or the performance changes dramatically, check the display in accordance with the following instructions. Remember to check the peripherals to pinpoint the source of the failure. If the display still fails to perform as expected, contact the dealer for assistance.

Problem	Solution
There is not any power.	Make sure the AC power button is ON, DC power button is ON (Green LED). Make sure AC power cord is securely connected to the AC socket. Plug another electrical device (like a radio) to the power outlet to verify that the outlet is supplying the proper voltage.
There is not any sound.	Check your audio connection Press MUTE on the remote control again, so that MUTE disappears from the screen Check your audio settings, your TV audio may be set to SAP or minimum Press the Volume + (Up) key on your remote control Make sure that headphones are not connected

Snow appears on screen	Check your antenna connection. Check TV / CATV selection.
Power is ON but no screen image.	Make sure the video cable supplied with the LCD display is tightly secured to the video output port on the back of the computer. If the other end of the video cable is not attached permanently to the LCD display, tightly secure it to the LCD display. Adjust brightness and contrast. If you are using a Macintosh older than G3, you will need a Macintosh adapter. Check Source settings.
Wrong or abnormal colors appear.	If any colors (red, green, or blue) are missing, check the video cable to make sure it is securely connected. Loose or broken pins in the cable connector could cause an improper connection. Connect the LCD display to another computer.
System is "locked" or not responding.	In the unlikely occurrence, press the "Up" key + AC power on to reset the monitor.
Control buttons do not work.	Press only one button at a time.
Remote Control does not work.	Make sure batteries are inserted correctly Batteries could be weak.
No output from RGB Out port	The RGB out port may only be used with content using the LCD's RGB-IN Port.
There appears to be image quality issues.	TV: For best image quality, "Standard Definition" TV should be viewed as 4:3. COMPONENT 480i: For best image quality the "YCbCr" Input should be used.
You cannot see a picture.	Make sure that the power cord is plugged into a grounded electrical outlet. Make sure that the power button is turned on. Make sure that the selected input source is connected to a working input source. If your LCD TV is connected to your computer in VGA or DVI mode, press any key on your keyboard to "wake" your computer. Press the AUTO button on the front of your LCD TV if you are using VGA or DVI input.
You see a distorted picture or hear unusual sound.	You may be getting interference from electrical appliances, cars, motorcycles, or fluorescent lights. Try moving your LCD TV to another location.
The picture has abnormal patterns.	Make sure that the input source cable is attached securely and correctly to the back of your LCD TV. Make sure that the video input source is within the range of your LCD TV. Compare the video input source's specifications with your LCD TV specifications.
The display image does not cover the entire screen.	If you are using VGA mode, make sure that H Size and V Position in the OSD are set correctly. If you are using TV, AV1, AV2/S, or component (DVD or HDTV) with 480i input, use the WIDE button on the remote control to scroll through various screen modes.
You can see a picture but you cannot hear sound.	Make sure that the volume is not turned down. Make sure that the sound is not muted. Make sure that your audio input source cables are connected securely and correctly.
The LCD TV has pixels that are always bright, dark, or colored.	Your LCD TV is manufactured using an extremely high level of precision technology. However, sometimes some pixels of your LCD TV may not display. Pixel defects within industry specifications are inherent to this type of product and do not constitute a defective product.
You see "noise" or "trash" on the screen.	When your LCD TV's digital capabilities exceed a digital broadcast signal, the signal is up-converted (increased) to match your LCD TV's display capabilities. Up-converting can cause noise or trash.

Screen brightness is diminished.	Video display devices experience degradation of brightness over the life of the device. Normal brightness degradation is not covered by your warranty.
You switch to a different input and the volume changes.	The LCD TV remembers the volume level from the last time you used a particular input (AV1, AV2/S, DVD, HDTV, and TV).
You switch to a different input and the screen size changes.	The LCD TV remembers the viewing mode from the last time you used a particular input (AV1, AV2/S, DVD, HDTV, and TV).
The PIP input is set to DVD but the picture does not look correct.	The PIP DVD source must be 480i (interlaced) and not 480p (progressive scan). Set your DVD player to interlaced or choose a different PIP source.
The buttons on the remote control and the buttons on the television do not work.	You may have set both key lockout and IR lockout on the television. To complete a master unlock of the television: 1. Remove the power cord from the wall outlet. 2. While pressing and holding the CH ▲, VOL ►, and MENU buttons on your television at the same time, plug the power cord back into the wall outlet. Both the key lockout and IR lockout are turned off.
The LCD TV will not accept the parental control password.	To reset the parental control password: 1. Use the remote control to access the Parental Controls OSD menu. When prompted for the password, use 0317. 2. Set the password using the steps in Section 3.5.5 - Setting a Password, page 31.

Tips for High-Definition Users	The LCD TV is an ideal platform for viewing High Definition Content. Best Image Quality will be achieved by the DVI Input, then YPBPR, then RGB. For 720p usage, there is a special "1:1" mode which allows the content to be displayed in its "TRUE" form as broadcast. However, due to variances in broadcast practices, it is possible some image distortions can occur. To use this mode while viewing 720p content, press the "WIDE" key on the remote control and select "1:1".
Tips for Letterbox Content Users	Letterboxed (or "Widescreen") versions of DVD movies are most commonly formatted for standard 4:3 Televisions. The LCD TV has the capability of expanding this content so the entire screen is filled at the expense of image accuracy. To use this function, press the "ZOOM" key on the RCU and cycle among the available options.

4.3 - Telephone & Technical Support

Products are often returned due to a technical problem rather than a defective product that may result in unnecessary shipping charges billed to you. Our trained support personnel can often resolve the problem over the phone. For more information on warranty service or repair, after the warranty period, please contact our Support Department at the number below.

Quality service and consistent technical support are integral parts of V's commitment to service excellence. V's service representatives are dedicated to assist you with the utmost in customer satisfaction. To better assist you, please call toll free or contact us via email.

<div align="center">

Tel: (714) 668-0588, 7am-4pm PST Mon - Fri
E-mail: techsupp@vinc.com
V, Inc.
320A Kalmus Drive
Costa Mesa, CA 92626
Tel: (714) 668.0588 Fax: (714) 668-9099
Web: www.VINC.com

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4.4 - Compliance

Caution: Always use a power cable that is properly grounded. Please use the AC cords listed below for each area.

USA	UL
Canada	CSA
Germany	VDE
Britain	BASE/BS
Japan	Electric Appliance Control Act

4.5 - FCC Class B Radio Frequency Interference Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Notice:
1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

V INC. LIMITED WARRANTY

For VIZIO LCD Displays

Welcome to the V, Inc. Digital Family! Please read this warranty carefully, it is a "ONE-YEAR LIMITED WARRANTY" on parts and labor.

V, Inc.'s Responsibility

V, Inc. LCD Displays purchased in the United States are warranted to be free from defects in materials or workmanship for a period of one (1) year from the date of their original retail purchase. If the unit fails to conform to this warranty, we will service the monitor using new or refurbished parts.

Service Labor

During a period of one year from the effective warranty date, V, Inc. will provide, when needed, service labor to repair a manufacturing defect at its designated Service Center. To obtain warranty service in the Untied States, you must first call our Customer Support at (714) 668-0588, 9:00am-5pm PST. The determination of service will be made by V, Inc. Customer Support. . PLEASE DO NOT RETURN YOUR UNIT TO V, INC. WITHOUT PRIOR AUTHORIZATION.

Parts

New or remanufactured replacements for defective parts will be used for repairs by V, Inc. at its designated Service Center for one (1) year from the effective warranty date. Such replacement parts are warranted for the remaining portion of the original warranty period.

Service

During the one (1) year warranty period, V, Inc. will, at its option and sole discretion, repair or replace defective parts, including replacement of the entire LCD Panel. The Customer will be required to ship the unit to the Service Center indicated at the time Customer Support is contacted to make the necessary repairs. You are responsible for all transportation charges to and from the service facility. V, Inc. is not responsible for the de-installation or re-installation of the unit.

Packaging and Shipping Instructions

When you send the product to an authorized V, Inc. service facility you must use the original carton box and packing material or an equivalent as approved by V, Inc.

Not Covered

This warranty does not cover defects, malfunctions or failures resulting from shipping or transit accidents, abuse, misuse, operation contrary to furnished instructions, operation on incorrect power supplies, operation with faulty associated equipment, modification, alteration, improper servicing, tampering or normal wear and tear or TVs on which the serial number has been removed or defaced. Image Sticking caused by operating at excessive brightness levels for extended periods or mishandling are not covered by this warranty.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE PERIOD OF TIME SET FORTH ABOVE. OUR LIABILITY FOR ANY AND ALL LOSSES AND DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER, INCLUDING OUR NEGLIGENCE, ALLEGED DAMAGE OR DEFECTIVE GOODS, WHETHER SUCH DEFECTS ARE DISCOVERABLE OR LATENT, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE DISPLAY. WE SHALL NOT BE RESPONSIBLE FOR LOSS OF USE, COMMERCIAL LOSS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This is the only warranty applicable; no one is authorized to extend or modify it or to grant any other warranty.

V, Inc. retains the right to assess all warranty claims and to determine if damages are covered by the warranty. In case of a claim that is not covered by the warranty, you will be contacted to determine whether V, Inc. should repair the damage for a fee or whether the product should be returned to you as received by the repair center.

Owner's Responsibility

Effective Warranty Date

Warranty begins on the date of sale to the end user. To ensure warranty service, keep the dated bill or sale receipt as evidence of the purchase date.

User Manual

Read your User Manual carefully so that you will understand the operation of your LCD Display and how to adjust the user controls.

Warranty Service

For warranty service information, contact V, Inc. Customer Support at (714) 668-0588, 9:00am-5pm PST. Parts and service labor that are V, Inc.'s responsibility (see above) will be provided without charge. Other service is at the owner's expense. You must provide the model, serial number and date of purchase. Before you ask for warranty service, read your User Manual. You might avoid a service call.

For Technical Support, visit WWW.VINC.COM, Call (877) 668.VINC (8462) or E-mail Techsupp@vinc.com

APPENDIX B:

Component Program Codes

MANUFACTURER'S CODES

Setup Codes for V Inc. Products:

Bravo D1 DVD	0124
Bravo D2 DVD	0123
Bravo HD1	1122
Vizio P4, P46	0120
Vizio L6, L20	0119
Vizio L13	0118
Vizio RP56	0080

Setup Codes for Audio Amplifiers:

GE	0078
Harman/Kardon	0892
JVC	0331
Marantz	0892
Optimus	0395
Philips	0892
Polk Audio	0892
Realistic	0395
Sony	0689
Soundesign	0078
Victor	0331
Wards	0078
Yamaha	0354

Setup Codes for Audio Receivers or Tuners :

ADC	0531
Aiwa	0121, 1405, 1089
Capetronic	0531
Carver	1089, 1189
Denon	1160, 1104
Harman/Kardon	0110
JBL	0110
JVC	0074
Kenwood	1027, 0186, 1313, 1569, 1570
MCS	0039
Magnavox	1089, 0531, 1189
Marantz	1189, 1089, 0039
Onkyo	0135
Optimus	1023, 0186, 0531, 0670
Panasonic	0039, 1518
Philips	1089, 1189, 1269
Pioneer	0150, 0531, 0630, 1023
Proscan	1254
Quasar	0039
RCA	1254, 0531, 1023
Sansui	1089
Sharp	0186
Sony	1158, 1058, 1258
Soundesign	0670
Sunfire	1313
Technics	0039, 1308, 1518, 1309
Thorens	1189
Victor	0074
Yamaha	0176, 0186, 1176

Setup Codes for Cable Coverters:

ABC	0003, 0017
Americast	0899
Bell South	0899
General Instrument	0276, 0476, 0810
GoldStar	0144
Hamlin	0009, 0273
Jerrold	0003, 0276, 0476, 0810
Memorex	0000
Motorola	1106
Pace	0237
Panasonic	0107, 0000
Paragon	0000
Philips	0305, 0317
Pioneer	0144, 0533, 0877
Pulsar	0000
Quasar	0000
Regal	0273, 0279
Runco	0000
Samsung	0144
Scientific Atlanta	0017, 0477, 0877
Starcom	0003
Toshiba	0000
Zenith	0000, 0525, 0899

Setup Codes for CD Players:

Aiwa	0157
Burmester	0420
Cal. Audio Labs	0029
Carver	0157, 0179
DKK	0000
Denon	0003, 0873
Emerson	0305
Fisher	0179
Garrard	0420
Genexxa	0032, 0305
Harman/Kardon	0157, 0173
Hitachi	0032
JVC	0072
Kenwood	0028, 0190, 0826, 0037, 0626, 0681
Krell	0157
LXI	0305
Linn	0157
MCS	0029
MTC	0420
Magnavox	0157, 0305
Marantz	0157, 0626, 0029
Mission	0157
NSM	0157
Onkyo	0101, 0868
Optimus	0032, 0468, 0420, 0179, 0305, 1063, 0000, 0037, 0145
Panasonic	0029
Parasound	0420
Philips	0157, 0626
Pioneer	0032, 0468, 0305, 1062, 1063
Polk Audio	0157
Proton	0157
QED	0157
Quasar	0029
RCA	0053, 0032, 1062, 0468, 0305, 0179
Realistic	0179, 0420
Rotel	0157, 0420
SAE	0157
Sansui	0157, 0305
Sanyo	0179
Scott	0305
Sears	0305
Sharp	0037, 0861
Sherwood	1067
Sonic Frontiers	0157
Sony	0000, 0490
Soundesign	0145
Tascam	0420
Teac	0420
Technics	0029
Victor	0072
Wards	0053, 0157
Yamaha	0036, 0888

Setup Codes for DVD Players:

Apex	0672
Denon	0490
Fisher	0670
GE	0522
Gradiente	0651
Hitachi	0573, 0664
Hiteker	0672
JVC	0623, 0558
Kenwood	0682, 0534
Konka	0719, 0711, 0720, 0721
Magnavox	0503, 0675
Marantz	0539
Mitsubishi	0521
Onkyo	0503
Optimus	0571
Oritron	0651
Panasonic	0490, 0677, 0632
Philips	0539, 0503
Pioneer	0571, 0525, 0632
Proscan	0522
RCA	0522, 0571
Samsung	0573
Sharp	0630
Sony	0533
Technics	0490
Theta Digital	0571
Toshiba	0503
Yamaha	0490, 0545
Zenith	0591, 0503

Setup Codes for Home Automation:

GE	0240
One For All	0167
Radio Shack	0240
Security System	0167
Universal X10	0167
X10	0167

Setup Codes for Satellite Receivers:

AlphaStar	0772
Chaparral	0216
Echostar	0775, 1005
Expressvu	0775
GE	0566
General Instrument	0869
HTS	0775
Hitachi	0819
Hughes Net. Sys.	0749, 1142, 1749
JVC	0775
Magnavox	0722, 0724
Memorex	0724
Mitsubishi	0749
Next Level	0869
Panasonic	0247, 0701
Philips	1076, 1142, 0722, 0724, 0749
Proscan	0392
RCA	0566, 0392, 0143, 0855
Radio Shack	0869
Samsung	1109
Sony	0639
Star Choice	0869
Toshiba	0749, 0790
Uniden	0724, 0722
Zenith	0856

Setup Codes for TVs:

AOC	0019, 0030
Admiral	0093, 0463
Aiko	0092
Aiwa	0701
Akai	0030
Alaron	0179
America Action	0180
Anam	0180
Audiovox	0092, 0180, 0451, 0623
Baysonic	0180
Belcor	0019
Bell & Howell	0016, 0154

Bradford	0180
Brockwood	0019
Broksonic	0236, 0463
CXC	0180
Candle	0030, 0056
Carnivale	0030
Carver	0054
Celebrity	0000
Cineral	0451, 0092
Citizen	0056, 0030, 0060, 0092
Concerto	0056
Contec	0180
Craig	0180
Crosley	0054
Crown	0180
Curtis Mathes	0060, 0030, 0016, 0047, 0051, 0054, 0056, 0093, 0145, 0154, 0166, 0451, 1147, 1347
Daewoo	0092, 0623, 0019, 0624, 0451
Daytron	0019
Denon	0145
Dumont	0017, 0019
Electroband	0000
Emerson	0236, 0180, 0178, 0179, 0463, 0624, 0623, 0019, 0154
Envision	0030
Fisher	0154
Fujitsu	0179, 0683
Funai	0180, 0171, 0179
Futuretech	0180
GE	0047, 1347, 0051, 0178, 0451, 1147, 0093
Gibralter	0017, 0019, 0030
GoldStar	0178, 0019, 0030, 0056
Gradiente	0056, 0053
Grunpy	0179, 0180
Hallmark	0178
Harley Davidson	0179
Harman/Kardon	0054
Harvard	0180
Hitachi	0145, 0056, 0016
Infinity	0054
Inteq	0017
JBL	0054
JCB	0000
JVC	0053
KEC	0180
KTV	0180, 0030
Kenwood	0030, 0019
Konka	0707, 0632, 0628, 0638, 0703
LG	0056
LXI	0154, 0047, 0054, 0156, 0178
Logik	0016
Luxman	0056
MGA	0150, 0019, 0030, 0178
MTC	0060, 0030, 0019, 0056
Magnavox	0054, 0030, 0179, 1254
Majestic	0016
Marantz	0054, 0030
Matsushita	0250
Megatron	0145, 0178
Memorex	0179, 0463, 0178, 0016, 0056, 0150, 0154, 0250
Midland	0017, 0047, 0051
Mitsubishi	0150, 0178, 0019, 0093
Motorola	0093
Multitech	0180
NAD	0156, 0166, 0178
NEC	0030, 0019, 0056
NTC	0092
Nikko	0178, 0030, 0092
Onwa	0180
Optimus	0250, 0166, 0154
Optonica	0093
Orion	0463, 0179, 0236
Panasonic	0051, 0250
Penney	0047, 1347, 0060, 0030, 0178, 0051, 0019, 0056, 0156
Philco	0145, 0019, 0030, 0054, 0463
Philips	0054
Pilot	0019, 0030
Pioneer	0166, 0679
Portland	0019, 0092
Princeton	0717
Prism	0051
Proscan	0047

Proton	0178
Pulsar	0017, 0019
Quasar	0051, 0250
RCA	0047, 1347, 1147, 0679, 1247, 0019, 0051, 0090, 0093, 1047, 1447
RadioShack	0180, 0030, 0178, 0154, 0019, 0047, 0056
Realistic	0180, 0154, 0030, 0178, 0019, 0056
Runco	0017, 0030
SSS	0019, 0180
Sampo	0030
Samsung	0060, 0019, 0178, 0030, 0056
Sansei	0451
Sansui	0463
Sanyo	0154
Scimitsu	0019
Scotch	0178
Scott	0236, 0019, 0178, 0179, 0180
Sears	0154, 0056, 0156, 0047, 0054, 0171, 0178, 0179
Semivox	0180
Semp	0156
Sharp	0093, 0688
Shogun	0019
Signature	0016
Sony	0000
Soundesign	0178, 0179, 0180
Squareview	0171
Starlite	0180
Supreme	0000
Sylvania	0054, 0030
Symphonic	0171, 0180
TMK	0056, 0178
TNCi	0017
Tandy	0093
Technics	0051, 0250
Technol Ace	0179
Techwood	0051, 0056
Teknika	0016, 0054, 0179, 0180, 0019, 0092, 0056, 0060, 0150
Telefunken	0056
Toshiba	0156, 0060, 0154, 1256
Vector Research	0030
Victor	0053
Vidikron	0054
Vidtech	0019, 0178
Wards	0054, 0178, 0016, 0019, 0030, 0056, 0179
White Westinghouse	0624, 0623, 0463
Yamaha	0019, 0030
Zenith	0017, 0624, 0016, 0092, 0463

Setup Codes for TV/VCR Combos:

American High	0035 (for TV use 0051)
Brocksonic	0002, 0294,
Colt	0072
Curtis Mathis	0035 (for TV use 0051)
Daewoo	0278
Emerson	0002, 0294, 0479
Funai	0000
GE	0035 (for TV use 0051), 0060 (for TV use 0047), 0048 (for TV use 0093), 0240
Hitachi	0035 (for TV use 0051), 0000
HQ	0000
Lloyds	0000
MGA	0240
Magnavox	0081 (for TV use 0054), 0035 (for TV use 0051), 0000
Magnin	0240
Memorex	0037, 0162 (for TV use 0250)
Mitsubishi	0048 (for TV use 0093)
Orion	0002, 0294, 0479
Panasonic	0035 (for TV use 0051), 0162 (for TV use 0250)
Penney	0035 (for TV use 0051), 0240, 0162 (for TV use 0250)
Quasar	0035 (for TV use 0051), 0162 (for TV use 0250)
RCA	0060 (for TV use 0047), 0035 (for TV use 0051), 0048 (for TV use 0093)
Sansui	0000, 0479
Sanyo	0240
Sears	0000, 0037

Sharp	0048 (for TV use 0093)
Sony	0032 (for TV use 0000)
Symphonic	0000
Zenith	0000

Setup Codes for VCRs:

Admiral	0048, 0209
Adventura	0000
Aiko	0278
Aiwa	0000, 0037
America Action	0278
American High	0035
Asha	0240
Audiovox	0037
Beaumark	0240
Bell & Howell	0104
Broksonic	0121, 0184, 0002, 0209, 0479
CCE	0072, 0278
Calix	0037
Canon	0035
Carver	0081
Cineral	0278
Citizen	0278, 0037
Colt	0072
Craig	0037, 0072, 0047, 0240
Curtis Mathes	0035, 0060, 0162
Cybernex	0240
Daewoo	0278, 0045
Denon	0042
Dynatech	0000
Electrohome	0037
Electrophonic	0037
Emerex	0032
Emerson	0184, 0002, 0209, 0278, 0121, 0479, 0000, 0037, 0043
Fisher	0047, 0104
Fuji	0033, 0035
Funai	0000
GE	0035, 0060, 0048, 0240
Garrard	0000
Go Video	0432
GoldStar	0037, 0038
Gradiente	0000
HI-Q	0047
Harley Davidson	0000
Harman/Kardon	0038, 0081
Harwood	0072
Hitachi	0042, 0000
Hughes Net. Sys.	0042
JVC	0067
KEC	0037, 0278
KLH	0072
Kenwood	0067, 0038
Kodak	0035, 0037
LXI	0037
Lloyd's	0000
Logik	0072
MEI	0035
MGA	0043, 0240
MGN Technology	0240
MTC	0000, 0240
Magnasonic	0278
Magnavox	0035, 0081, 0563, 0000, 0039, 0149
Magnin	0240
Marantz	0081, 0035
Marta	0037
Matsushita	0035, 0162
Memorex	0104, 0047, 0479, 0000, 0037, 0048, 0035, 0240, 1037, 0039, 0162, 0209, 1162, 1262
Minolta	0042
Mitsubishi	0043, 0048, 0067
Motorola	0035, 0048
Multitech	0000, 0072
NEC	0038, 0067, 0104
Nikko	0037
Noblex	0240
Olympus	0035
Optimus	0162, 1062, 1162, 0048, 1262, 0037, 1048, 0104, 0432
Orion	0479, 0002, 0184, 0209
Panasonic	0035, 0162, 1162, 1262, 1362, 0616, 1062
Penney	0035, 0240, 0037, 0042, 0038

Pentax	0042
Philco	0035, 0209, 0479
Philips	0081, 0035, 0618, 1081, 1181
Pilot	0037
Pioneer	0067
Polk Audio	0081
Profitronic	0240
Proscan	0060
Protec	0072
Pulsar	0039
Quasar	0035, 0162, 1162
RCA	0060, 0149, 0042, 0035, 0048, 0240
RadioShack	0000, 1037
Radix	0037
Randex	0037
Realistic	0000, 0104, 0047, 0048, 0037, 0035
ReplayTV	0614, 0616
Runco	0039
STS	0042
Samsung	0045, 0240
Sanky	0039, 0048
Sansui	0479, 0000, 0067, 0209
Sanyo	0047, 0104, 0240
Scott	0184, 0121, 0043, 0045
Sears	0037, 0042, 0000, 0035, 0047, 0104
Semp	0045
Sharp	0048
Shintom	0072
Shogun	0240
Singer	0072
Sony	0033, 0032, 0000, 0035, 0636, 1032
Sylvania	0035, 0081, 0000, 0043
Symphonic	0000
TMK	0240
Teac	0000
Technics	0035, 0162
Teknika	0000, 0035, 0037
Thomas	0000
Tivo	0618, 0636
Toshiba	0045, 0043
Totevision	0037, 0240
Unitech	0240
Vector	0045
Vector Research	0038
Video Concepts	0045
Videosonic	0240
Wards	0035, 0060, 0000, 0047, 0240, 0042, 0048, 0072, 0081, 0149
White Westinghouse	0072, 0278, 0209
XR-1000	0072, 0000, 0035
Yamaha	0038
Zenith	0039, 0000, 0033, 0209, 0479

Setup Codes for Video Accessories:

Panasonic	1120
Pioneer	1010
Sensory Science	1126
Sharp	1010

ADDITIONAL INFORMATION

The Catalyst 34 does not have any user-serviceable parts. Opening the case, except for the battery cover, may cause permanent damage to your Catalyst 34.

M4800   03/04

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